

## ABSTRACT

An armature composed of a shaft and an armature core is rotatably supported in a housing of a rotary electric machine. The shaft is forcibly inserted into a center hole of the armature core formed by laminating core sheets. Each core sheet has a center hole and outer holes connected to the center hole. A contour of the center hole is not continuous because the outer holes are connected thereto. The shaft can be firmly connected to the laminated core sheets with a relatively low inserting force. The shaft has a smooth outer surface having no knurls or the like. In addition, the outer holes of the laminated core sheets form cooling air passages in the armature core in its axial direction.